## **BEST AVAILABLE COPY**

### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization

International Bureau



## . | 1881 | 1881 | 1887 | 1887 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1

(43) International Publication Date 10 March 2005 (10.03.2005)

PCT

## (10) International Publication Number WO 2005/021841 A3

(51) International Patent Classification<sup>7</sup>: G01N 01/10, C07K 01/00

C30B 29/54,

(21) International Application Number:

PCT/IL2004/000794

(ZZ) Falchaddora' Alfrig Enter

2 September 2004 (02.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/499,360 60/533,245 3 September 2003 (03.09.2003) US 31 December 2003 (31.12.2003) US

- (71) Applicant (for all designated States except US): BIO-FORMS [IL/IL]; 4 Pekeris Street, 76702 Rehovot (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BUKSHPAN, Shmuel [IL/IL]; 11/8 Hagana Street, 47203 Ramat Hasharon (IL).
- (74) Agent: WEBB, Cynthia; Webb & Associates, P.O. Box 2189, 76121 Rehovot (IL).

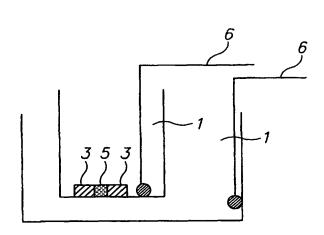
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MY, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- (88) Date of publication of the international search report: 12 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND APPARATUS FOR RAPID CRYSTALLIZATION OF BIOMOLECULES



(57) Abstract: The present invention relates to methods and apparatus for promoting rapid formation of biomolecule crystals from a solution of biomolecules, preferably proteins, wherein the protein solution undergoes rapid concentration according to its isoelectric point in an electric field. Protein crystallization according to the methods of the present invention takes place within a period of hours or less.

